Timm			[45]	Date of	Patent:	* May	19, 1987	
[54]		US FOR PREPARING LARGE IES OF UNIFORM SIZE DROPS	[56] References Cited U.S. PATENT DOCUMENTS					
[75]	Inventor:	Edward E. Timm, Coleman, Mich.	2,606	•	Kolthoff et a			
[73]	Assignee:	The Dow Chemical Company, Midland, Mich.	3,204,934 9/1965 Graham et al					
[*]	Notice:	The portion of the term of this patent subsequent to Apr. 24, 2001 has been	4,017,670 4/1977 Spicuzza, Jr. et al				526/88	
		disclaimed.			Paul R. Michl			
[21]	Appl. No.:	732,980	Assistant Examiner—Alex H. Walker					
[22]	Filed:	May 13, 1985	[57]		ABSTRACT			
r1			Spheroidal polymer beads having a uniform size are					
Related U.S. Application Data			prepared by polymerizing uniformly sized monomer droplets formed by the vibratory excitation of a laminar					
[63]	abandoned, 588,588, M tinuation-in No. 4,444,9 No. 283,779	on-in-part of Ser. No. 607,535, May 7, 1984, which is a continuation-in-part of Ser. No. ar. 12, 1984, abandoned, which is a con-part of Ser. No. 398,007, Jul. 14, 1982, Pat. 61, which is a continuation-in-part of Ser. 0, Jul. 16, 1981, abandoned, which is a con-part of Ser. No. 202,265, Oct. 30, 1980,	flow jet of monomeric material flowing in a continuous liquid medium containing a suitable suspending agent. In the apparatus employed, the means for vibratorily exciting the laminar flow jet is parallel to the axis of the monomer jet. For example, the laminar flow jet of a monomer mixture and a polymerization initiator can be subjected to vibratory excitation and the resulting monomer droplets are polymerized to yield copolymer					
[51] [52]				beads. The apparatus employed allows for the preparation of large numbers of monomer droplets.				

[11] Patent Number:

11 Claims, 4 Drawing Figures

4,666,673

United States Patent [19]